



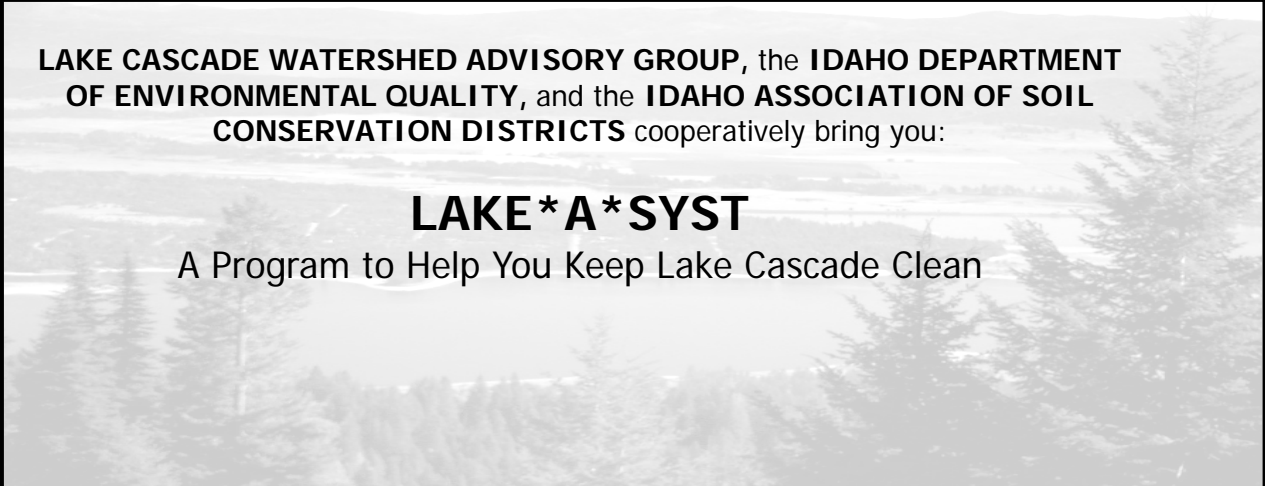
LAKE CASCADE WATERSHED ADVISORY GROUP, the IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY, and the IDAHO ASSOCIATION OF SOIL CONSERVATION DISTRICTS cooperatively bring you:

LAKE*A*SYST

A Program to Help You Keep Lake Cascade Clean

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LAKE*A*SYST

A Program to Help You Keep Lake Cascade Clean

If you live in the Lake Cascade watershed you have a special responsibility to prevent pollutants from entering streams, groundwater, and the lake. Lake Cascade's water quality is currently improving, but the growth in recent years associated with urbanization threatens the gains made thus far. One action to *minimize* the input of nutrients, sediments, and toxic materials into Lake Cascade from **Stormwater Runoff** is to prevent untreated runoff from your property from entering Lake Cascade or its tributaries.

What is Lake*A*Syst?

Lake Assessment System (Lake*A*Syst) is a voluntary program designed to help you protect Lake Cascade by reducing sediment and nutrient delivery to the lake.

Lake*A*Syst is a 3-Step Process:

- 1) Use the fact sheets to assess stormwater runoff from your property.
- 2) Fill out the **Action Checklist** (in the worksheet) to inventory contamination sources
- 3) **Take Action** to protect Lake Cascade, by using Best Management Practices found in Lake*A*Syst.

DO YOU LIVE ADJACENT TO BUREAU OF RECLAMATION LAND??

DO NOT DO ANYTHING ON BUREAU OF RECLAMATION LAND WITHOUT CALLING THE LOCAL OFFICE AT 382-4258. IF A PROJECT ON YOUR PROPERTY WILL HAVE ANY TYPE OF IMPACT ON BUREAU OF RECLAMATION LAND, CALL 382-4258.

LAKE * A * SYST FACT SHEET SUMMARY PAGE

This booklet consists of four different Fact Sheet sections, each addressing a specific topic. Each section is divided into two parts: an information section and a self assessment to be filled out by the property owner. Not all sections are appropriate for each landowner, but taken individually they contain a great deal of information to assist the landowner in becoming an informed steward of the land and water.

FACT SHEET 1: Storm Water Runoff

Storm water runoff occurs when precipitation from rain or snowmelt flows over the ground. Storm water can pick up debris, chemicals, dirt and other pollutants and flow into a lake, stream or river.

Polluted storm water runoff can have many adverse affects on plants, fish, animals and people. Sediment can cloud the water and destroy aquatic habitats. Excess nutrients can cause algae blooms. Hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil and other auto fluids can poison aquatic life.

FACT SHEET 2: Lawn and Garden Management

Nutrients found in fertilizers can cause problems when they enter lakes and streams. Nitrogen and phosphorus contribute to algae growth, which depletes oxygen in the water and can suffocate fish and insects that fish eat. The proximity of some homes to the lakeshore increases the risk that these materials will enter the water and cause problems.

FACT SHEET 3: Landscape and New Construction

Plants and trees help hold the soil and prevent erosion, especially on steep slopes. Anytime existing native vegetation is removed, the bare soil that is exposed can be washed into Lake Cascade. It harms the lake by causing excess sedimentation, killing aquatic bottom life, and disrupting spawning.

FACT SHEET 4: Access Roads and Driveway Runoff

Many roads and driveways are constructed of compacted soil. If not properly managed, they can get rutted, allowing runoff to flow freely downhill, scouring away the soil, and carrying sediment into the lake.

Lake*A*Syst Resources and Contact Information

Stormwater Runoff – Fact Sheet 1

Handbook of Valley County Stormwater Best Management Practices

- available for viewing at the Planning and Zoning/Building Department, Valley County Courthouse
- contains information regarding selecting and installing stormwater best management practices
- contains information regarding disposal of hazardous wastes

Valley County Transfer Station, 240 Spink Lane, 634-7712.

- information regarding disposal of hazardous wastes in Valley County
- accepts certain waste and recyclable materials

Lakeshore Disposal, McCall, 634-7176

- does not collect batteries or hazardous wastes

Valley County Road Department, 382-7195

- can assist with information regarding driveway and culvert installation

Idaho Department of Lands, 555 Deinhard Lane, McCall, ID 83638 (634-7125)

- can assist with information regarding culvert installation on timbered property
- can offer seeding suggestions on timbered property

Valley County Weed Department, 382-7199

- offers information regarding the disposal of pesticide and fertilizer containers

Idaho Department of Environmental Quality, 634-4900

- for general information on water quality and stormwater issues
- for assistance in locating resources

Lake*Ast*Resources and Contact Information

Lawn and Garden Management – Fact Sheet 2

Valley County University of Idaho Cooperative Extension Service, 108 W. Pine St., Cascade, 382-7190

- can assist with pest management and fertilizers
- can assist with soil testing

Valley County Weed Department, 382-7199

- offers information regarding the disposal of pesticide and fertilizer containers

Handbook of Valley County Stormwater Best Management Practices

- available for viewing at the Planning and Zoning/Building Department, Valley County Courthouse
- contains information regarding selecting and installing stormwater best management practices
- contains information regarding disposal of hazardous wastes

Lake*A*Syst Resources and Contact Information

Access Roads and Driveway Runoff – Fact Sheet 3

US Forest Service, BNF - Cascade Ranger Station, 540 N Main St., Cascade, ID 83611
·for information on Forest Service Roads

Idaho Department of Lands, 555 Deinhard Lane, McCall, ID 83638 (634-7125)
·can assist with information regarding culvert installation on timbered property
· for information regarding roads maintained by IDL

Valley County Road Department, 382-7195
·can assist with information regarding driveway and culvert installation
·for information regarding roads maintained by the County

Archer, D. & M. *Forestry for Idaho: BMPs – Forest Stewardship Guidelines for Water Quality*. University of Idaho Cooperative Extension System.

Idaho Forest Practices Act, www.idahoforests.org

Stream Channel Alteration Law, Title 42, Chapter 38, Idaho Code.

Idaho Department of Water Resources, www.idwr.gov

Handbook of Valley County Stormwater Best Management Practices

- available for viewing at the Planning and Zoning/Building Department, Valley County Courthouse
- contains information regarding selecting and installing stormwater best management practices for roads and driveways

Army Corps of Engineers
Boise Regulatory Office
304 North 8th Street, Rm 140
Boise ID 83702

Lake*Ast*Resources and Contact Information

Landscape and New Construction – Fact Sheet 4

Idaho Department of Lands, 555 Deinhard Lane, McCall, ID 83638 (634-7125)

- can assist with information regarding culvert installation on timbered property
- can offer seeding suggestions on timbered property

Valley County Building Department, Valley County Courthouse, 382-7114

- for information regarding set backs, subdivision infrastructure and drainage

Valley County University of Idaho Cooperative Extension Service, 108 W. Pine St., Cascade, 382-7190

- can assist with pest management and fertilizers
- can assist with soil testing

Handbook of Valley County Stormwater Best Management Practices

- available for viewing at the Planning and Zoning/Building Department, Valley County Courthouse
- contains information regarding selecting and installing stormwater best management practices for roads and driveways

NPDES Permit - <http://cfpub.epa.gov/npdes>